



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090047-D

Mode: Highway

Status: Submitted

US-221

From/Cross Street: NC 226 intersection South of Marion

To: I-40

Length: 1.73

Specific Improvement Type: 1 - Widen Existing Roadway

Project Category: Statewide Mobility

TIP#: R-0204D

Fully Funded in Draft STIP? No

Cost to NCDOT: \$42,180,000

Description:

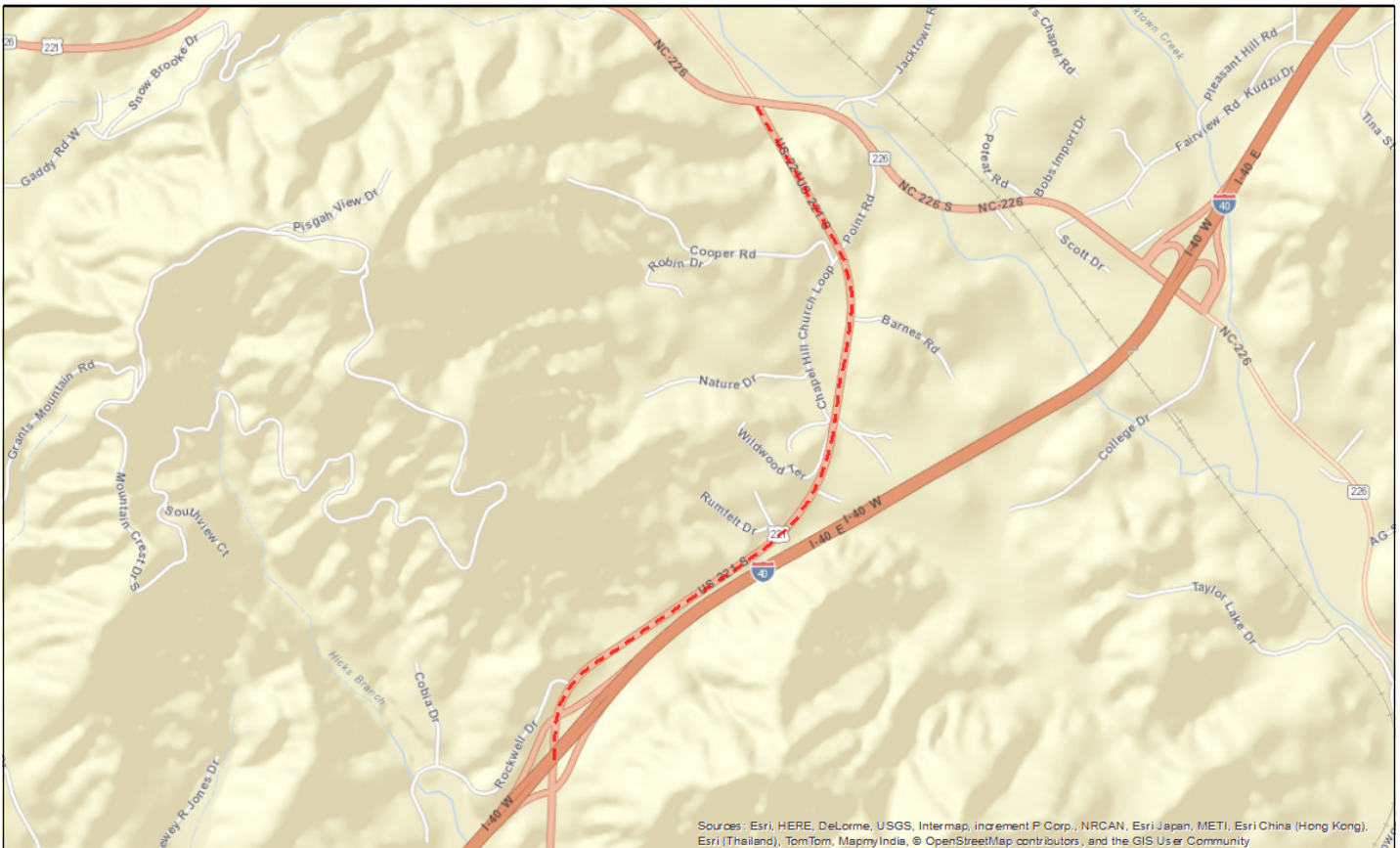
Widen to Multi-Lanes.

Division(s): Division 13

County(s): MCDOWELL

MPOS(s)/RPO(s): Isothermal RPO

Project Location



Statewide Mobility Total Score: 13.83

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%) 47.72	N/A	N/A
Economic Competitiveness (10%) 0.00		
Multimodal + [Freight & Military] (20%) 2.35		
Congestion (V/C) (30%) 28.62		
[Travel Time] Benefit/Cost (30%) 0.00		
Totals: Weight: 100% Weighted Score: 13.83		

Regional Impact Total Score: 28.94

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 28.62	Percent: 15% Points: 0	Percent: 15% Points: 100
Safety (10%) 47.72		
[Travel Time] Benefit/Cost (25%) 0.00		
Accessibility / Connectivity (10%) 20.10		
Totals: Weight: 70% Weighted Score: 13.94		

Division Needs Total Score: 10.49

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (10%) 47.72	Percent: 25% Points: 0	Percent: 25% Points: 0
Congestion (V/C) (20%) 28.62		
[Travel Time] Benefit/Cost (20%) 0.00		
Totals: Weight: 50% Weighted Score: 10.49		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	1.73
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	No
Volume (AADT):	6700
Capacity:	15500
Volume/Capacity Ratio:	0.43
% Autos:	93%
% Trucks:	7%
Truck Volume:	470
Crash Density:	65.34
Crash Severity:	45.77
Critical Crash Rate:	32.05
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	1
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	17
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	96
Actual Congested Speed:	43.55
Travel Time Index:	1.25

Project Benefits

Project Cross-Section:	4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, Bike Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	1.73
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	2
Travel Time Savings for 30 Years (Total):	-298913.53
Travel Time Savings for 30 Years (Autos):	-277944.97
Travel Time Savings for 30 Years (Trucks):	-20968.56
Long-Term Employment:	0
% Change in Economy:	0
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 13

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 13	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Isothermal RPO	100%	100	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	0

Project Cost and Source

Construction Cost:	\$30,200,000	TIP Unit
Right-of-Way Cost:	\$11,700,000	TIP Unit
Utilities Cost:	\$280,000	TIP Unit
Total Project Cost:	\$42,180,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$42,180,000	